

# Orion Oaks Park Vision and Facility Concepts

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## Park Vision

Orion Oaks County Park in northeastern Oakland County is the location of a popular dog park and a large expanse of mostly undeveloped open space for outdoor recreation. Over the next ten years, Oakland County Parks and Recreation will provide services and facilities that complement the distinctive character of Orion Oaks, while increasing the sustainability of the park and the Oakland County Parks system. The park vision looks forward ten years and describes the park after the recommended actions of the park planning process have been successfully implemented:

- The natural features of Orion Oaks are maintained and enhanced and are an integral part of the Orion Oaks experience
- The Dog Park is a rich environment for visitors and their dogs to spend quality time together
- Dog licensure requirements are understood and accepted by Dog Park visitors and have helped to increase the number of licensed dogs in Oakland County
- Accessible shared use paths have been developed that connect the park between its major access points and to the Orion Township safety path that borders the park
- Accessibility is enhanced throughout the park and the park is well-known for barrier-free experiences and facilities
- Lake access is improved and promoted
- In addition to being a popular dog park, Orion Oaks is well-known as a great place to experience nature on its trails and on Lake 16
- Improvements to maintenance facilities have increased staff efficiency in managing the natural and built resources in the park
- Facility improvements and improvements to business and operating practices increase customer satisfaction of existing visitor populations; draw new target populations to the park; and create new programmatic and revenue-generation opportunities

## Objectives and Performance Indicators

Objectives have been selected that are measureable in terms of performance indicators:

**PARK USER SATISFACTION** – Increase customer satisfaction with the amenities and services at the park

*Performance Indicator: Park user surveys and comment cards – Report annually*

**PARK VISITS** – Increase annual number of visits to facilities in the park

*Performance Indicator: Park visit statistics – Report quarterly and annually*

**FISCAL TRENDS** – Increase park annual net revenue as appropriate to the park's categories of service

*Performance Indicator: Park fiscal trends – Report monthly and annually*

**COST RECOVERY** – Meet cost recovery targets as established by the Parks Commission

*Performance Indicator: Cost recovery calculation for services delivered – Report annually*

**NATURAL RESOURCE QUALITY** – Preserve existing high quality ecosystems and improve ecological communities that are fragmented or degraded

*Performance Indicator: Geographic measurement of managed areas – Report annually*

## Guiding Principles

The following priorities guide the development of facility concepts and investment in asset management:

*MAINTAIN ASSETS* – perform maintenance or updates without expanding or enlarging the asset, while planning and preparing for future changes and expansions

*MONITOR AND OPERATIONALLY SUPPORT* – set evaluation and decision-point timelines for lower performing facilities, programs, and practices, while providing operational support and exploring alternatives

*REPURPOSE OR REMOVE NON-FUNCTIONAL ASSETS* – repurpose non-functional assets based on costs and benefits or remove promptly if an alternate use is not available, not fiscally feasible, or not supported by public engagement

*MAKE SELECTED NEW INVESTMENTS* – plan for expanding or adding assets and programs when projected outcomes are supported by public engagement and performance data

## Planning Timeframe

This document considers both long-term (within 10 years or longer) and short-term (within the next 1-5 years) concepts. Most of the concepts in the document are recommended for implementation within the next 5 years (short-term). Long-term concepts are clearly identified as such. When concepts are linked to projects within the Capital Improvement and Maintenance Management Plans (OCPRC, 8/4/2016), these projects and budgets are identified. The *Vision and Concepts* is updated annually, documenting improvements that have been completed and providing further detail as concepts are more fully developed.

## Introduction to Planning Units

Through the planning process, we identify distinct Park Planning Units within the park where similar or related park and recreation services are delivered. Planning Units may be considered dispersed throughout the park, located in a specific geographic area in the park, or considered operational. In some cases, new facilities or services are proposed – these areas may or may not have a geographic location identified.

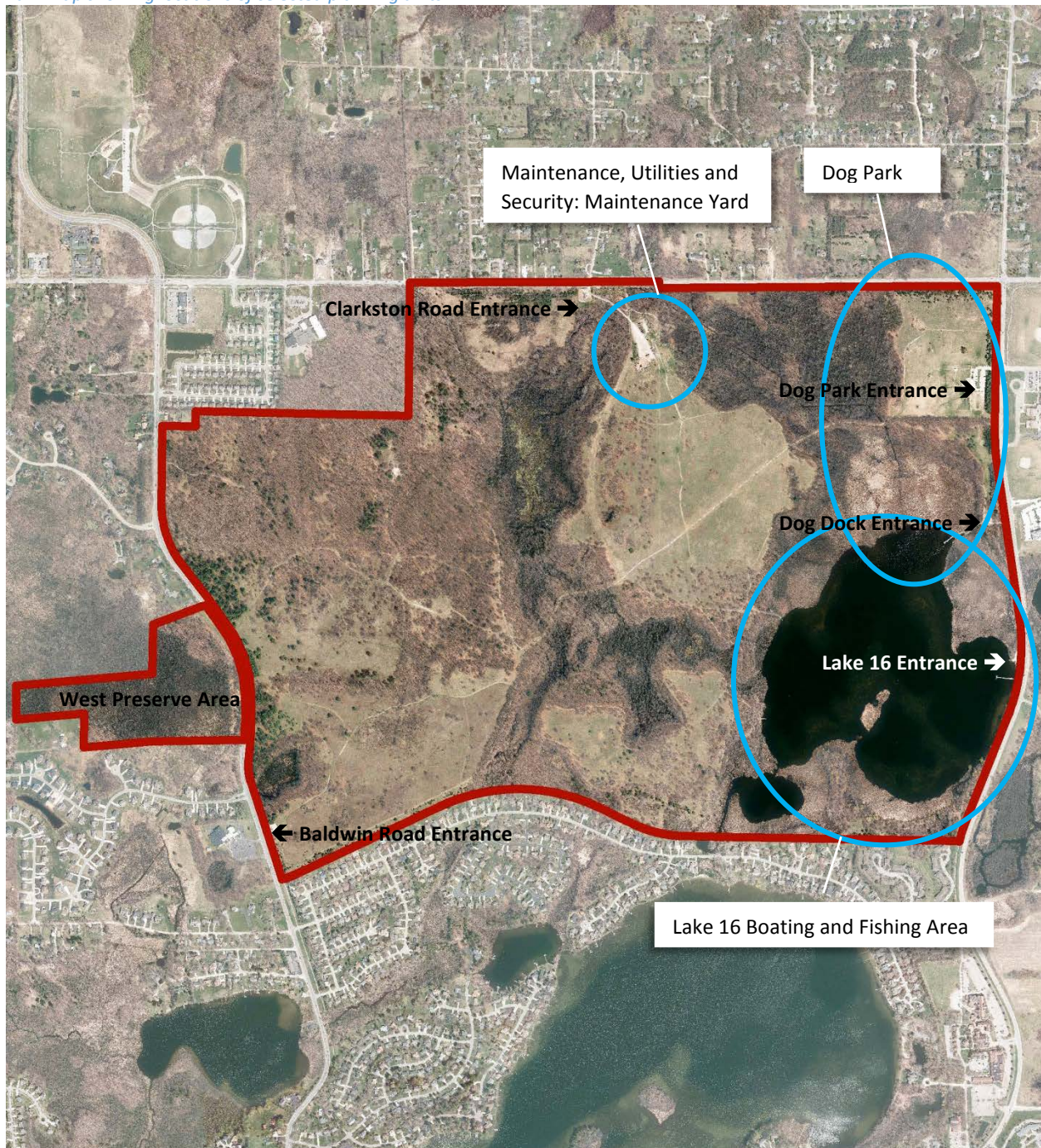
### Planning Units

1. Natural Resource Management
2. Roadways and Parking
3. Maintenance, Utilities and Security
4. Technology
5. Non-Recreational Features
6. Park Trails and Regional Connectivity
7. Dog Park
8. Lake 16 Boating and Fishing
9. Organized Programs and Events
10. Data Collection and Management
11. Response to Changing Trends and Needs



## Planning Unit Maps

*Park map showing locations of selected planning units*



## Natural Resource Management

[Link to Summary Table](#)

Item	Current Conditions and Needs	Recommended Actions
Water Quality	Natural springs in dog park threatened by dog access	Fencing to keep dogs from area
	New Invasive species introductions	Prevent release of aquatic invasive species along roadway
	Eurasian and hybrid water milfoil in Lake Sixteen	Continued evaluation and treatment from contractor
	Eurasian and hybrid watermilfoil threatening water quality and habitat in Lake Sixteen	Continue annual treatment of Eurasian and hybrid watermilfoil at Lake Sixteen
Compliance	Vernal pool habitat location and protection	Document and map vernal pools
	Additional water feature at dog park dock	Evaluate wading beach near dock
	Eastern Massasauga Rattlesnake (EMR) compliance	Procure DEQ permits Continue to follow EMR Implementation Plan and inclusion to Conservation Candidate Agreement with Assurances with state and federal partners
	Storm water compliance	Continue storm water compliance monitoring Monitor culverts in dog park
Invasive Plants	<i>Phragmites</i> and glossy buckthorn invasion along edge of Lake Sixteen	Track and monitor sensitive areas around Lake Sixteen for <i>Phragmites</i> and glossy buckthorn population, continue prescribed burns and manual control.
	Invasive species with highest management concern include oriental bittersweet, autumn olive, common and glossy buckthorn, honeysuckle species, black and pale swallow-wort, spotted knapweed, and garlic mustard.	Continue to manage invasives with best-management practices including manual/mechanical control, biocontrol (knapweed weevils), prescribed fire, and habitat restoration.
	Christmas tree program- concern with spreading invasive species	Continue with incineration, as an alternative of spreading
	Dumping of plants and yard waste from park neighbors is an issue and vector for invasive plant introduction.	Fenceline repairs



Item	Current Conditions and Needs	Recommended Actions
Wildlife	Eastern Massasauga Rattlesnake management	BMP's including earlier burn times and lower soil temperatures to prevent EMR mortality and no mowing grass over 6 inches after EMR emergence.
	Wetland habitat for EMR, Blanding's turtle and other reptiles and amphibians	Wetland complex protection and restoration
	White-tail deer over-population	Management of white-tail deer with aerial or alternative surveys and archery deer hunting program.
	Mute swam and Canada goose population	BMP control efforts (egg/nest program)
	Grassland birds management (eastern bluebird, northern bobwhite, eastern meadowlark, bobolink, American woodcock, dickcissel and grasshopper sparrow)	Grassland habitat restoration (manual control of woody species, prescribed fire, prairie species seeding) and (bluebird) nest box volunteer program
	American beaver management	Monitor dam and lodge building
Forestry	Hazardous tree removal program	Continue assistance with high priority hazardous tree removals around the park, concentrated in highest use zones
	Forest pest/disease monitoring	Monitor for oak wilt (specifically on Baldwin Road property) and strategize landmark tree protection within the park
	Eurasian scotch and Austrian pines planted	Promote control thought selective harvest, prescribed fire
Restoration	Intact native habitat in addition to potential prairie remnant with big bluestem	Restoration through prescribed fire, invasive plant removal and native plant seeding
	Degraded oak barren community	Develop long-term management plan with goals for quality and species diversity Restoration through prescribed fire, invasive plant removal and native plant seeding

## Park Entrances, Roadways and Parking

[Link to Summary Table](#)

Item	Current Conditions and Needs	Recommended Actions
Dog Park Entrance and Parking Lot	<p>ACCESSIBILITY: Accessibility updates needed to comply with ADA requirements:</p> <ul style="list-style-type: none"> <li>Provide accessible and van-accessible parking spaces with access aisles and access routes</li> <li>Restripe access aisles</li> <li>Correct slope of existing spaces and access aisles</li> </ul> <p>CAPACITY: On busy days, dog park visitors exceed capacity of parking lot Overfull parking lot has the potential of impeding access and exit of emergency vehicles When the parking lot is full, people will park along road and in school parking lot across Joslyn Road – endangering themselves crossing busy road</p> <p>CONDITIONS: Parking lot is muddy in wet weather</p> <p>FLOW: Single entry/exit gets congested when park is busy</p>	<p>ACCESSIBILITY: Implement accessibility updates per <i>Transition Plan</i> (OCPR, 4/24/2017, pp. 1-2, photo 1-2)</p> <p>CAPACITY: Determine optimal capacity for best experience at dog park use with parking lot and close entry to parking lot when it is reached Consider adding a contact station/booth at the entrance that is staffed when the park is at capacity to deter people from entering via the exit lane Depend on park deputies and local law enforcement to handle issues of parking on road and across the street</p> <p>CONDITIONS/ Short-term: Continue to maintain gravel as needed <b>CONDITIONS/ Long-term: Pave parking lot</b> <b>FLOW/Long-term: Develop a long-term parking/traffic plan for the Dog Park that increases capacity and provides separate entry and exit *</b></p>
Dog Dock Entrance	<p>ACCESSIBILITY: Accessibility updates needed to comply with ADA requirements:</p> <ul style="list-style-type: none"> <li>Replace sign at entrance to parking lot (separate parking lot for accessible parking ONLY is not in compliance with accessibility requirements)</li> <li>Provide accessible and van-accessible parking spaces with access aisles and access routes</li> </ul>	<p>ACCESSIBILITY: Implement accessibility updates per <i>Transition Plan</i> (OCPR, 4/24/2017, pp. 2, photo 3-4)</p>
Lake 16 Entrance and Parking Lot	<p>ACCESSIBILITY: Accessibility updates needed to comply with ADA requirements:</p> <ul style="list-style-type: none"> <li>Provide accessible and van-accessible parking spaces with access aisles and access routes</li> <li>Provide accessibility sign to each space</li> </ul>	<p>ACCESSIBILITY: Implement accessibility updates per <i>Transition Plan</i> (OCPR, 4/24/2017, pp. 3, photo 5)</p>

\*Project has been identified – see Summary Table

Item	Current Conditions and Needs	Recommended Actions
Clarkston Road Entrance and Parking Lot	<p>ACCESSIBILITY: Accessibility updates needed to comply with ADA requirements:</p> <ul style="list-style-type: none"> <li>Provide accessible and van-accessible parking spaces with access aisles and access routes</li> </ul> <p>CONDITIONS: Parking area needs drainage work, repairs and gravel. Floods badly in southeast corner.</p> <p>SIGNAGE: Entrance sign and kiosk are not in line with current standards</p> <p>NOTE: This is the Christmas tree drop-off parking lot</p>	<p>ACCESSIBILITY: Implement accessibility updates per <i>Transition Plan</i> (OCPR, 4/24/2017, pp. 3, photo 6)</p> <p>CONDITIONS: Evaluate parking lot for drainage and plan for repairs</p> <p>SIGNAGE: Look at Rose and Highland. Consider moving fence back from road and adding a sign that is branded appropriately.</p>
Clarkston Internal Parking Lot	<p>Ongoing agreement with DTE to use this lot as a staging area for work trucks and crews who do tree trimming/removal for DTE utility lines in exchange for 12 days of work by Asplundh crews in the parks</p>	<p>Continue agreement – it has value to the parks system</p> <p>Monitor for excessive storage of wood from storm damage and make sure tub grinding is done as need</p>
Baldwin Road Entrance and Parking Lot	<p>ACCESSIBILITY: Accessibility updates needed to comply with ADA requirements:</p> <ul style="list-style-type: none"> <li>Provide accessible and van-accessible parking spaces with access aisles and access routes</li> </ul> <p>SIGNAGE: Entrance sign and kiosk are not in line with current standards</p>	<p>ACCESSIBILITY: Implement accessibility updates per <i>Transition Plan</i> (OCPR, 4/24/2017, pp. 3, photo 7)</p> <p>SIGNAGE: Look at Rose and Highland. Consider moving fence back from road and adding a sign that is branded appropriately.</p>



## Maintenance, Utilities and Security

[Link to Summary Table](#)

Item	Current Conditions and Needs	Recommended Actions
Boundary Management	There are occurrences of adjacent residents creating private entrances and dumping On south side of Lake 16, neighbors are mowing parkland	Evaluate fenceline and communicate with neighbors Extend fence into wetland to prevent mower entry
Maintenance Yard	Maintenance Yard needs upgrades to create a safer place for equipment and more resources for staff	Develop overall Maintenance Yard concept
Proposed Cold Storage Building	Portable garage in place now for riding mowers and other equipment Most equipment is stored in the open Need increased capacity for cold storage and replacement of current building	<b>Design and construct structure for cold storage*</b> Concepts to consider: <ul style="list-style-type: none"> <li>▪ Pole barn</li> <li>▪ Shipping containers with roof – see <a href="#">Covered Shipping Container Concept</a></li> </ul>
Utilities	Well is located inside dog enclosure A	Manage well per Health Department regulations Evaluate capacity of well and potential need for additional wells – especially if future irrigation is considered for the Dog Park
Security	Routine patrols on the trails by bike or patrol car have increased in the past year with related budget adjustment	No actions recommended
Septic/Sewer	On city sewer	No actions recommended
Toilets	As usage of park increases, toilet facilities need to be upgraded	Evaluate feasibility of a switch from portable toilets to a vault toilet system similar to state park system Compare costs/benefits of two systems Look at costs to pump and clean portable

\* Project has been identified – see Summary Table

## Technology

[Link to Summary Table](#)

Item	Current Conditions and Needs	Recommended Actions
Fiber-Optic	Upgrades to the lines servicing the park are needed for faster processing of RecTrac transactions	Upgrade fiber optic lines as part of a system-wide upgrade Wi-Fi throughout the park is not recommended – prefer that dog owners focus on dogs
Oakland County Dog License Sales	Potential of selling dog licenses for Oakland County Animal Control	Plan to integrate into RecTrac sales
Interactive technology	Cell phone apps would be a good tool for wayfinding and interpretation at the park – especially as use of trail system increase	Develop apps for wayfinding and interpretation
Electronic Entry	Models exist for electronic entry into dog parks	Evaluate feasibility and costs/benefits of a key fob entry system

## Non-Recreational Features - NA

## Park Trails and Regional Connectivity

[Link to Summary Table](#)

Item	Current Conditions and Needs	Recommended Actions
Regional Connections	Connected with Orion Township safety paths	No changes
Access Routes	<p>Accessibility updates needed to comply with ADA requirements:</p> <p>DOG DOCK AREA:</p> <ul style="list-style-type: none"> <li>Lengthen area between gates on south side of parking lot</li> <li>Reconstruct access route to dock and at interface of access route with dock</li> </ul> <p>LAKE 16 BOATING AND FISHING AREA:</p> <ul style="list-style-type: none"> <li>Lengthen area between gates on north side of parking lot</li> <li>Create access route to boarding pier</li> <li>Reconstruct access route to dock and at interface of access route with dock</li> </ul> <p>CLARKSTON ROAD ENTRANCE:</p> <ul style="list-style-type: none"> <li>Create access routes from accessible parking spaces to: <ul style="list-style-type: none"> <li>Portable toilet</li> <li>Accessible picnic unit</li> <li>Trail marker and map box</li> </ul> </li> <li>Increase width between fences making up switchback gate</li> </ul> <p>BALDWIN ROAD ENTRANCE:</p> <ul style="list-style-type: none"> <li>Create access routes from accessible parking spaces to: <ul style="list-style-type: none"> <li>Kiosk in parking lot</li> <li>Accessible picnic unit</li> <li>Trail and trailhead</li> </ul> </li> </ul>	<p>Implement accessibility updates per <i>Transition Plan</i></p> <p>DOG DOCK AREA: (OCPR, 4/24/2017, pp. 4, photo 8-10)</p> <p>LAKE 16 BOATING AND FISHING AREA: (OCPR, 4/24/2017, pp. 5, photo 11-15)</p> <p>CLARKSTON ROAD ENTRANCE: (OCPR, 4/24/2017, pp. 6-7, photo 16-20)</p> <p>BALDWIN ROAD ENTRANCE: (OCPR, 4/24/2017, pp. 7, photo 21-22)</p>
Shared Use Paths	Currently there are no trails that meet the shared-use path specification	Using existing trail routes as a starting point, plan and develop accessible aggregate shared-use paths that connect Baldwin Road, Clarkston Road, and Dog Park Entrances
Hiking Trails	Currently there are no trails that meet the hiking trail specification	After planning for shared-use paths, evaluate need and feasibility for development of accessible hiking trails

Item	Current Conditions and Needs	Recommended Actions
Rustic Trails	Existing trail network consists of rustic trails with uneven conditions and that tend to be sandy and muddy	Prioritize improvements and upgrades to access routes, shared use paths and hiking trails For remaining rustic trails, provide signage identifying trail conditions
	Trails have multiple accessibility issues	As trails are upgraded, reconstruct to comply with trail guidelines to the extent feasible
	Dog Park/Lake 16 Lane: It is not clear that this is an on-leash area and not part of the dog park	Dog Park/Lake 16 Lane: On the dog park side install "Leaving Dog Park" sign
Trail Amenities	Accessibility updates needed to comply with ADA requirements: LAKE 16 BOATING AND FISHING AREA: <ul style="list-style-type: none"> <li>Replace portable toilet with accessible model and construct access route</li> <li>Create accessible picnic unit</li> <li>Create clear ground space around bench</li> </ul> CLARKSTON ROAD ENTRANCE: <ul style="list-style-type: none"> <li>Create accessible picnic unit</li> </ul> BALDWIN ROAD ENTRANCE: <ul style="list-style-type: none"> <li>Replace portable toilet with accessible model and construct access route</li> </ul>	Implement accessibility updates per <i>Transition Plan</i> : LAKE 16 BOATING AND FISHING AREA: (OCPR, 4/24/2017, pp. 8-9, photo 24-27)  CLARKSON ROAD ENTRANCE: (OCPR, 4/24/2017, pp. 9, photo 19)  BALDWIN ROAD ENTRANCE: (OCPR, 4/24/2017, pp. 9-10, photo 21,28)
Trail Signage	Many of the signs and trail markers do not meet current standards	Evaluate signage and update to a consistent standard

## Dog Park

[Link to Summary Table](#)

Item	Current Conditions and Needs	Recommended Actions
Rules	<p>Dog licenses required and enforced by Oakland County Sheriff</p> <p>This has been very unpopular – however the regular users and groups may be starting to appreciate enforcement and increased safety</p> <p>No food in dog enclosures</p>	<p>Continue enforcement and continue to build public knowledge of this requirement</p> <p>Necessary for both dog and owner safety in dog enclosures – encourage groups renting dog enclosures to also rent the on-leash pavilion so they can have food</p>
Office	<p>Office has window but no interior opening into vending area – problem selling passes during cold weather Office need to improve accessibility to office</p> <p>Vending has commenced from the office</p>	<p>Create a service window that opens on the vending area</p> <p>Evaluate usage of vending machines</p>
Dog Enclosures	<p>Surface maintenance remains a challenge</p> <p>Staff has replaced posts as needed</p> <p>Small dog fencing has changed from double fencing to single layer of smaller gauge goat fencing</p> <p>Improve gate system – surface is not holding up to amount of traffic</p> <p>Occasional issues of people entering dog park from rear of park to avoid paying or checking license at front gate</p>	<p>Continue to improve surface, including aerating and overseeding</p> <p>Maintain fences</p> <p>Evaluate types of fence</p> <p>Consider top rail in areas where people tend to jump the fence</p> <p>Evaluate surface within gates and develop standards</p> <p>Improve access control by closing rear access from trail system</p>
Dog Enclosure Shelters	<p>People ask for more shaded resting areas within dog enclosures</p>	<p>Create design concepts for more shelters, i.e. pad with tent or simple pavilion</p>
On-Leash Pavilion	<p>Currently 6-10 rentals per year – interest is growing</p>	<p>Continue to promote</p>
On-Leash Areas	<p>Drainage issues for sidewalks in winter</p> <p>Office has flooded out before.</p> <p>Winter snow and ice removal needs improvement</p> <p>Trying out alternative solutions</p> <p>Grounds surrounding office need irrigation to maintain landscape</p> <p>Problems caused by compaction, dog urine, de-icing agents, etc. and need to flush soil</p>	<p>Evaluate drainage and plan to correct</p> <p>Select method based on non-toxicity to dogs and cost-effectiveness</p> <p>Evaluate well capacity to support limited irrigation in on-leash areas</p>



Item	Current Conditions and Needs	Recommended Actions
Dog Wash Station	Dog wash area needs improvement Drainage area around dog wash needs management	Expand with more concrete and improved drainage Provide spigot and hoses Coin operated wash station NOT recommended
Dog Dock	Packed on weekends Surface needs to be improved  Accessibility updates needed to comply with ADA requirements: <ul style="list-style-type: none"> <li>Adjust dock cross slope</li> </ul>	Expand dog dock Try new surface materials and survey users to determine what is working for their dogs Implement accessibility updates per <i>Transition Plan</i> : (OCPR, 4/24/2017, pp. 10, photo 28)
Proposed Dog Beach	Park users have expressed desire for a dog wading area in addition to dog dock for smaller dogs and dogs that are not comfortable in deeper water	Work with Natural Resources Management to select an appropriate sight and obtain necessary permits
Dog Park Lighting	Temporary lighting was provided on Tuesdays and Thursdays in 2015-2016 as an experiment Increased usage was not demonstrated and lighting was not continued in 2017	Providing lighting is no recommended at this time

## Lake 16 Boating and Fishing Area

[Link to Summary Table](#)

Item	Current Conditions and Needs	Recommended Actions
Fishing Docks	<p>Accessibility updates needed to comply with ADA requirements:</p> <ul style="list-style-type: none"> <li>Adjust gangway ramp</li> <li>Remove trip hazards or replace benches</li> <li>Lower at least 25 percent of guardrail to a maximum of 34 inches</li> </ul> <p>Large fishing piers are in good shape Updated and repaired docks on west side of lake</p>	<p>Implement accessibility updates per <i>Transition Plan</i>: (OCPR, 4/24/2017, pp. 10-11, photo 29-31)</p> <p><b>Continue to monitor and repair/replace as needed*</b></p>
Boarding Pier	<p>Now pulling out dock at the end of season so we can reinstall and level it seasonally</p> <p>Accessibility updates needed to comply with ADA requirements:</p> <ul style="list-style-type: none"> <li>Repair or replace transition plate</li> <li>Rebuild pier to correct surface gaps and insufficient space between posts</li> </ul>	<p>Implement accessibility updates per <i>Transition Plan</i>: (OCPR, 4/24/2017, pp. 11-12, photo 32-34)</p>
Portable Toilets	See Trail Amenities	
Picnic Areas	See Trail Amenities	

\*Project has been identified – see Summary Table

## Organized Programs and Events

[Link to Summary Table](#)

Item	Current Conditions and Needs	Recommended Actions
OCPR Dog Park Special Events	<p>OCPR special events helped to publicize the dog park and build the user base</p> <p>Staff recommend that the events have done their job and are no longer needed</p> <p>Users appear to prefer to enjoy the park uninterrupted by organized activities</p>	Discontinue OCPR dog park special events
External Dog Park Events	There is a much better potential for groups to host events who do their own marketing and promotion, which in turn brings new people into the dog park	Promote the park for events hosted by outside groups
Vaccination Clinics	These are well-attended events and provide a public benefit	Continue

## Data Collection and Management

[Link to Summary Table](#)

Item	Current Conditions and Needs	Recommended Actions
Visitor statistics	Park staff report counts from vehicle counters Visitor estimates are calculated by Planning and Resource Development (PRD) section and reported to management	No changes recommended
Visitor surveys	Park survey card program will launch in 2017  Dog Park data is needed to guide future improvements and development Need for user data will arise as new projects are planned	Summarize data quarterly and report to management Include annual summary in Annual Dashboard and Data Book  Consider fall open house in 2017  Collaborate with PRD to plan, implement and report project-specific user surveys

## Response to Changing Trends and Needs

[Link to Summary Table](#)

Item	Current Conditions and Needs	Recommended Actions
Track Trends and Needs	Our communities and the nature of recreation are constantly changing and evolving and one outcome of planning is a renewed understanding of recreational needs and trends and nimbleness in adapting to changes in the community	Track trends and recreational need related to current uses of park, types of rental equipment of available, and potential new uses
Evaluate Alternatives	OCPR is evaluating a range of alternative recreational uses for existing parks and facilities based on current documented recreational needs and appropriateness to the physical site	Evaluate alternative uses as they are identified

## Summary Facility Concepts and Budget Effects

The following table links the Facility Concepts developed with existing or proposed capital improvement (CIP) or maintenance projects or identifies if the Facility Concept would be implemented through planning and/or operational actions. The table provides estimates of potential budgetary effects of implementing Facility Concepts. For more details about CIP and maintenance projects, please refer to the current Capital Improvement Budget & Maintenance Management Plan (OCPRC, 8/4/2016)

10-Year Concept	Planning and/or Operations Actions	Transition Plan/ Accessibility Actions	Maintenance Forecast	CIP Forecast	CIP or Maintenance Management Plans Project Name
Natural Resource Management <a href="#">Return to planning unit</a>					
Water Quality	✓				
Compliance	✓				
Invasive Plants	✓				
Wildlife	✓				
Forestry	✓				
Renovation	✓				
Park Entrances, Roadways and Parking <a href="#">Return to planning unit</a>					
Dog Park Entrance and Parking Lot	✓	✓		\$80,000 \$30,000 \$365,000	ORN Parking lot expansion gravel (FY2021) ORN Parking Lot Paving Design ORN Parking Lot Paving Construction
Dog Dock Entrance	✓	✓			
Lake 16 Entrance and Parking Lot	✓	✓			
Clarkston Road Entrance and Parking Lot	✓	✓			
Clarkston Road Internal Parking Lot	✓				
Baldwin Road Entrance and Parking Lot	✓	✓			
Maintenance, Utilities and Security <a href="#">Return to planning unit</a>					
Boundary Management	✓				
Maintenance Yard	✓				
Proposed Cold Storage Building	✓			\$26,000 \$180,000	*ORN Pole Barn Design *ORN Pole Barn Construction
Utilities	✓				
Security	✓				
Septic/Sewer	✓				
Toilets	✓	✓			
Technology <a href="#">Return to planning unit</a>					
Fiber-Optic	✓				

10-Year Concept	Planning and/or Operations Actions	Transition Plan/Accessibility Actions	Maintenance Forecast	CIP Forecast	CIP or Maintenance Management Plans Project Name
<i>Oakland County Dog License Sales</i>	✓	✓			
<i>Interactive Technology</i>	✓	✓			
<i>Electronic Entry</i>	✓	✓			
Non-Recreational Features - NA					
Park Trails and Regional Connectivity					
<a href="#">Return to planning unit</a>					
<i>Regional Connections</i>	✓	✓			
<i>Access Routes</i>	✓	✓			
<i>Shared Use Paths</i>	✓	✓			
<i>Hiking Trails</i>	✓	✓			
<i>Rustic Trails</i>	✓	✓			
<i>Trail Amenities</i>	✓	✓			
<i>Trail Signage</i>	✓	✓			
Dog Park					
<a href="#">Return to planning unit</a>					
<i>Rules</i>	✓	✓			
<i>Office</i>	✓	✓			
<i>Dog Enclosures</i>	✓	✓			
<i>Dog Enclosure Shelters</i>	✓	✓			
<i>On-Leash Pavilion</i>	✓	✓			
<i>On-Leash Areas</i>	✓	✓			
<i>Dog Wash Station</i>	✓	✓			
<i>Dog Dock</i>	✓	✓			
<i>Proposed Dog Beach</i>	✓	✓			
<i>Dog Park Lighting</i>	✓	✓			
Lake 16 Boating and Fishing Area					
<a href="#">Return to planning unit</a>					
<i>Fishing Docks</i>	✓	✓		\$70,000	ORN Dock Replacement – Lake 16
<i>Boarding Pier</i>	✓	✓			
<i>Portable Toilets</i>	✓	✓			
<i>Picnic Areas</i>	✓	✓			
Organized Programs and Events					
<a href="#">Return to planning unit</a>					
<i>OCPR Dog Park Special Events</i>	✓	✓			
<i>External Dog Park Events</i>	✓	✓			
<i>Vaccination Clinics</i>	✓	✓			
Data Collection and Management					
<a href="#">Return to planning unit</a>					
<i>Visitor Statistics</i>	✓				
<i>Visitor Surveys</i>	✓				
Response to Changing Trends and Needs					
<a href="#">Return to planning unit</a>					



10-Year Concept	Planning and/or Operations Actions	Transition Plan/ Accessibility Actions	Maintenance Forecast	CIP Forecast	CIP or Maintenance Management Plans Project Name
<i>Track Trends and Needs</i>	✓				
<i>Evaluate Alternatives</i>	✓				
FORECAST AMOUNTS			\$0	\$686,000	
REINVESTMENT CALCULATION <sup>1</sup>					
Total Combined Maintenance and CIP			\$686,000		
CIP Forecast for New Assets			\$206,000		* New assets
Net Reinvestment in Existing Assets			\$480,000		
Value of Existing Assets (2016)			\$1,229,575		
<b>Average annual reinvestment over 10 years</b>			<b>3.90%</b>		

<sup>1</sup> REINVESTMENT CALCULATION: The **Average Annual Reinvestment** is expressed as a percentage of the total replacement value of park assets and is calculated with the following formula:

$$\frac{[(A + B - C) / D]}{E}$$

Where:

A = Total forecast maintenance costs (\$)

B = Total forecast CIP costs (\$)

C = Total forecast CIP costs for new assets (\$)

D = Replacement Value of Park Assets (Orion Oaks' assets have an estimated value of **\$1,229,575** in 2016 dollars)

E = Number of years of the planning period (10 years for park plans)

## Maps and Drawings

Covered shipping container concept

Resources:

- <http://www.steelmasterusa.com/container-covers-roofs/>
- <https://www.podroofusa.com/>
- <http://www.americancoversinc.com/shipping-container-covers.html>
- <http://inhabitat.com/nyc/net-zero-shipping-container-energy-center-opens-at-brooklyn-bridge-park/>

Images (from Google):



## References

OCPR. (4/24/2017). *Transition Plan for Orion Oaks*. Waterford MI: Oakland County Parks and Recreation Commission.

OCPRC. (8/4/2016). *Proposed FY2017 Capital Improvement & Maintenance Management Plan*. Waterford, MI: Oakland County Parks and Recreation Commission.